

Application No. 10/787,449
Response to Office Action

Customer No. 01933

Listing of Claims:

1. (Currently Amended) An antenna apparatus, comprising:
a dielectric substrate made of a dielectric material;
a flat-plate radiation element buried inside the dielectric
substrate at ~~its~~ a center portion of the dielectric substrate;
5 a feeding lead connected to the radiation element and
~~extracted~~ extending outward from a ~~rear~~ lower surface of the
dielectric substrate through the inside thereof; and
a conductor cover covering at least side surfaces of the
dielectric substrate;
10 wherein the conductor cover ~~having~~ comprises: (a) a side
wall portion extending in a thickness direction of the radiation
element ~~and covering~~ such that the conductor cover covers all of
the side surfaces of the dielectric substrate, and (b) at least
one hood portion extending from an upper edge of the side wall
15 portion ~~and covering~~ so as to cover a part of ~~a front~~ an upper
surface of the dielectric substrate.

2. (Currently Amended) An antenna apparatus according to
claim 1, wherein a body of the dielectric substrate ~~has a shape~~
~~of a~~ is rectangularly configured body.

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3. (Currently Amended) An antenna apparatus according to claim 1, wherein:

the at least one hood portion ~~having~~ comprises a plurality of said hood portions, each of which has a trapezoidal shape
5 whose including a base that is coincident with a peripheral side of the front upper surface of the dielectric substrate; and

the front upper surface of the dielectric substrate ~~having~~ comprises an exposed portion, which is not covered with the hood ~~portion portions, the exposed portion having~~ and which includes a
10 rectangular center portion and a plurality of strip-like peripheral portions extending outward from a plurality of corners of the rectangular center portion along diagonal lines thereof.

4. (Currently Amended) An antenna apparatus according to claim 1, wherein:

the at least one hood portion ~~having~~ comprises a plurality of said hood portions, each of which has a rectangular shape
5 whose including a base that is coincident with a peripheral side of the front upper surface of the dielectric substrate; and

the front upper surface of the dielectric substrate ~~having~~ comprises an exposed portion, which is not covered with the hood ~~portion portions, the exposed portion having~~ and which includes a
10 rectangular center portion and a plurality of rectangular

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peripheral portions having inner corners which overlap four corners of the rectangular center portion, respectively.

5. (Original) An antenna apparatus according to claim 1, wherein the radiation element has a rectangular shape.

6. (Currently Amended) An antenna apparatus according to claim 5 1, wherein the radiation element has a six-sided shape obtained by trimming ~~the~~ a rectangular shape by cutting off two corners opposite to each other along a diagonal line of the rectangular shape.

7. (Original) An antenna apparatus according to claim 5, wherein the rectangular shape is a square shape.

8. (Original) An antenna apparatus according to claim 1, wherein the dielectric substrate, the radiation element, the feeding lead, and the conductor cover are formed into an integral structure.